Amendment to the Claims

The following listing of claims will replace all prior versions and listings of claims. Listing of Claims:

- 1. (Previously Presented) An isolated nucleic acid molecule comprising a polynucleotide having a nucleotide sequence at least 95% identical to a sequence selected from the group consisting of:
 - (a) a nucleotide sequence encoding the FcR-V polypeptide having the amino acid sequence at positions -16 to 498 of SEQ ID NO:10 or the complete amino acid sequence encoded by the FcR-V cDNA clone contained in ATCC Deposit No. 209100;
 - (b) a nucleotide sequence encoding the FcR-V polypeptide having the amino acid sequence at positions -15 to 498 of SEQ ID NO:10 or the complete amino acid sequence excepting the N-terminal methionine encoded by the FcR-V cDNA clone contained in ATCC Deposit No. 209100;
 - (c) a nucleotide sequence encoding the mature form of the FcR-V polypeptide having the amino acid sequence at positions 1 to 498 in SEQ ID NO:10, or as encoded by the FcR-V cDNA clone contained in ATCC Deposit No. 209100;
 - (d) a nucleotide sequence encoding a polypeptide comprising the extracellular domain of the FcR-V polypeptide having the amino acid sequence at positions 1 to 343 in SEQ ID NO:10 or as encoded by the FcR-V cDNA clone contained in ATCC Deposit No. 209100;
 - (e) a nucleotide sequence encoding a polypeptide comprising the transmembrane domain of the FcR-V polypeptide having the amino acid sequence at positions 344 to 364 in SEQ ID NO:10 or as encoded by the FcR-V cDNA clone contained in ATCC Deposit No. 209100;
 - (f) a nucleotide sequence encoding a polypeptide comprising the intracellular domain of the FcR-V polypeptide having the amino acid sequence at positions 365 to 498 in SEQ ID NO:10 or as encoded by the FcR-V cDNA clone contained in ATCC Deposit No. 209100;
 - (g) a nucleotide sequence encoding a soluble FcR-V polypeptide having the extracellular and intracellular domains but lacking the transmembrane domain; and

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(h) a nucleotide sequence complementary to any of the nucleotide sequences in (a) through (g) above.

2-18. (Canceled)

- 19. (Previously Presented) An isolated FcR-V polypeptide comprising an amino acid sequence at least 95% identical to a sequence selected from the group consisting of:
 - (a) the amino acid sequence of the complete FcR-V polypeptide having the amino acid sequence positions -16 to 498 of SEQ ID NO:10 or the complete FcR-V amino acid sequence encoded by the FcR-V cDNA clone contained in ATCC Deposit No. 209100;
 - (b) the amino acid sequence of the complete FcR-V polypeptide having the amino acid sequence positions -15 to 498 of SEQ ID NO:10 or the complete FcR-V amino acid sequence excepting the N-terminal methionine encoded by the FcR-V cDNA clone contained in ATCC Deposit No. 209100;
 - (c) the amino acid sequence of the mature FcR-V polypeptide having the amino acid sequence at positions 1 to 498 in SEQ ID NO:10, or as encoded by the FcR-V cDNA clone contained in ATCC Deposit No. 209100;
 - (d) the amino acid sequence of the extracellular domain of the FcR-V polypeptide having the amino acid sequence at positions 1-343 in SEQ ID NO:10, or as encoded by the FcR-V cDNA clone contained in ATCC Deposit No. 209100;
 - (e) the amino acid sequence of the transmembrane domain of the FcR-V polypeptide having the amino acid sequence at positions 344-364 in SEQ ID NO:10, or as encoded by the FcR-V cDNA clone contained in ATCC Deposit No. 209100;
 - (f) the amino acid sequence of the intracellular domain of the FcR-V polypeptide having the amino acid sequence at positions 365-498 in SEQ ID NO:10, or as encoded by the FcR-V cDNA clone contained in ATCC Deposit No. 209100;
 - (g) the amino acid sequence of a soluble FcR-V polypeptide comprising the extracellular and intracelluar domains, but lacking the transmembrane domain.

20. (Canceled)

21. (Previously Presented) An isolated antibody that binds specifically to an FcR-V polypeptide of claim 19.

- 22. (Canceled)
- 23. (New) An isolated antibody or fragment thereof that specifically binds to a protein selected from the group consisting of:
 - (a) a protein consisting of amino acid residues -16 to 498 of SEQ ID NO:10;
 - (b) a protein consisting of amino acid residues 1 to 498 of SEQ ID NO:10; and,
 - (c) a protein consisting of the extracellular domain of the FcR-V polypeptide having the amino acid sequence at positions 1 to 343 in SEQ ID NO:10.
- 24. (New) The antibody or fragment thereof of claim 23 that specifically binds protein (a).
- 25. (New) The antibody or fragment thereof of claim 23 that specifically binds protein (b).
- 26. (New) The antibody or fragment thereof of claim 23 that specifically binds protein (c).
- 27. (New) The antibody or fragment thereof of claim 24 that specifically binds protein (b).
- 28. (New) The antibody or fragment thereof of claim 23 which is a human antibody.
- 29. (New) The antibody or fragment thereof of claim 23 which is a monoclonal antibody.
- 30. (New) The antibody or fragment thereof of claim 23 which is a polyclonal antibody.
- 31. (New) The antibody or fragment thereof of claim 23 which is selected from the group consisting of:
 - (a) a chimeric antibody;
 - (b) a humanized antibody;
 - (c) a single chain antibody; and
 - (d) a Fab fragment.

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- 32. (New) The antibody or fragment thereof of claim 23 which is labeled.
- 33. (New) The antibody or fragment thereof of claim 23 wherein said antibody or fragment thereof specifically binds to said protein in a Western blot.
- 34. (New) The antibody or fragment thereof of claim 23 wherein said antibody or fragment thereof specifically binds to said protein in an Enzyme Linked Immunosorbent Assay (ELISA).
- 35. (New) An isolated cell that produces the antibody or fragment thereof of claim 23.
- 36. (New) A hybridoma that produces the antibody or fragment thereof of claim 23.
- 37. (New) A method of detecting Fc Receptor-V (FcR-V) protein in a biological sample comprising:
 - (a) contacting the biological sample with the antibody or fragment thereof of claim 23; and
 - (b) detecting the FcR-V protein in the biological sample bound to the antibody or fragment thereof of claim 23.
- 38. (New) The method of claim 37 wherein the antibody or fragment thereof is a monoclonal antibody.
- 39. (New) The method of claim 37 wherein the antibody or fragment thereof is a polyclonal antibody.
- 40. (New) An isolated antibody or fragment thereof that specifically binds to a protein selected from the group consisting of:
 - (a) a protein consisting of the full-length polypeptide encoded by the cDNA contained in ATCC Deposit Number 209100;

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- (b) a protein consisting of the mature form of the polypeptide encoded by the cDNA contained in ATCC Deposit Number 209100; and,
- (c) a protein consisting of the extracellular domain of the FcR-V polypeptide encoded by the FcR-V cDNA in the FcR-V plasmid contained in ATCC Deposit Number 209100.
- 41. (New) The antibody or fragment thereof of claim 40 that specifically binds protein (a).
- 42. (New) The antibody or fragment thereof of claim 40 that specifically binds protein (b).
- 43. (New) The antibody or fragment thereof of claim 40 that specifically binds protein (c).
- 44. (New) The antibody or fragment thereof of claim 41 that specifically binds protein (b).
- 45. (New) The antibody or fragment thereof of claim 40 which is a human antibody.
- 46. (New) The antibody or fragment thereof of claim 40 which is a monoclonal antibody.
- 47. (New) The antibody or fragment thereof of claim 40 which is a polyclonal antibody.
- 48. (New) The antibody or fragment thereof of claim 40 which is selected from the group consisting of:
 - (a) a chimeric antibody;
 - (b) a humanized antibody;
 - (c) a single chain antibody; and
 - (d) a Fab fragment.
- 49. (New) The antibody or fragment thereof of claim 40 which is labeled.

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- 50. (New) The antibody or fragment thereof of claim 40 wherein said antibody or fragment thereof specifically binds to said protein in a Western blot.
- 51. (New) The antibody or fragment thereof of claim 40 wherein said antibody or fragment thereof specifically binds to said protein in an Enzyme Linked Immunosorbent Assay (ELISA).
- 52. (New) An isolated cell that produces the antibody or fragment thereof of claim 40.
- 53. (New) A hybridoma that produces the antibody or fragment thereof of claim 40.
- 54. (New) A method of detecting Fc Receptor-V (FcR-V) protein in a biological sample comprising:
 - (a) contacting the biological sample with the antibody or fragment thereof of claim 40; and
 - (b) detecting the FcR-V protein in the biological sample bound to the antibody or fragment thereof of claim 40.
- 55. (New) The method of claim 54 wherein the antibody or fragment thereof is a monoclonal antibody.
- 56. (New) The method of claim 54 wherein the antibody or fragment thereof is a polyclonal antibody.
- 57. (New) An isolated antibody or fragment thereof that specifically binds a FcR-V protein expressed on the surface of cells in a cell culture wherein the cells in said culture comprise a polynucleotide encoding amino acids 1 to 498 of SEQ ID NO:10 operably associated with a regulatory sequence that controls the expression of said polynucleotide

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- 58. (New) The antibody or fragment thereof of claim 57 which is a human antibody.
- 59. (New) The antibody or fragment thereof of claim 57 which is a monoclonal antibody.
- 60. (New) The antibody or fragment thereof of claim 57 which is a polyclonal antibody.
- 61. (New) The antibody or fragment thereof of claim 57 which is selected from the group consisting of:
 - (a) a chimeric antibody;
 - (b) a humanized antibody;
 - (c) a single chain antibody; and
 - (d) a Fab fragment.
- 62. (New) The antibody or fragment thereof of claim 57 which is labeled.
- 63. (New) The antibody or fragment thereof of claim 57 wherein said antibody or fragment thereof specifically binds to said protein in a Western blot.
- 64. (New) The antibody or fragment thereof of claim 57 wherein said antibody or fragment thereof specifically binds to said protein in an Enzyme Linked Immunosorbent Assay (ELISA).
- 65. (New) An isolated cell that produces the antibody or fragment thereof of claim 57.
- 66. (New) A hybridoma that produces the antibody or fragment thereof of claim 57.
- 67. (New) A method of detecting Fc Receptor-V (FcR-V) protein in a biological sample comprising:
 - (a) contacting the biological sample with the antibody or fragment thereof of claim 57; and

- (b) detecting the FcR-V protein in the biological sample bound to the antibody or fragment thereof of claim 57.
- 68. (New) The method of claim 67 wherein the antibody or fragment thereof is a monoclonal antibody.
- 69. (New) The method of claim 67 wherein the antibody or fragment thereof is a polyclonal antibody.
- 70. (New) An isolated antibody or fragment thereof that specifically binds a FcR-V protein expressed on the surface of cells in a cell culture wherein the cells in said culture comprise the mature form of the polypeptide encoded by the cDNA contained in ATCC Deposit Number 209100 operably associated with a regulatory sequence that controls the expression of said polynucleotide.
- 71. (New) The antibody or fragment thereof of claim 70 which is a human antibody.
- 72. (New) The antibody or fragment thereof of claim 70 which is a monoclonal antibody.
- 73. (New) The antibody or fragment thereof of claim 70 which is a polyclonal antibody.
- 74. (New) The antibody or fragment thereof of claim 70 which is selected from the group consisting of:
 - (a) a chimeric antibody;
 - (b) a humanized antibody;
 - (c) a single chain antibody; and
 - (d) a Fab fragment.
- 75. (New) The antibody or fragment thereof of claim 70 which is labeled.

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- 76. (New) The antibody or fragment thereof of claim 70 wherein said antibody or fragment thereof specifically binds to said protein in a Western blot.
- 77. (New) The antibody or fragment thereof of claim 70 wherein said antibody or fragment thereof specifically binds to said protein in an Enzyme Linked Immunosorbent Assay (ELISA).
- 78. (New) An isolated cell that produces the antibody or fragment thereof of claim 70.
- 79. (New) A hybridoma that produces the antibody or fragment thereof of claim 70.
- 80. (New) A method of detecting Fc Receptor-V (FcR-V) protein in a biological sample comprising:
 - (a) contacting the biological sample with the antibody or fragment thereof of claim 70; and
 - (b) detecting the FcR-V protein in the biological sample bound to the antibody or fragment thereof of claim 70.
- 81. (New) The method of claim 80 wherein the antibody or fragment thereof is a monoclonal antibody.
- 82. (New) The method of claim 80 wherein the antibody or fragment thereof is a polyclonal antibody.

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